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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/574,213	10/09/2006	Dirk Vetter	1390700006US	5527	
23416 7590 01/05/2009 CONNOLLY BOVE LODGE & HUTZ, LLP			EXAM	EXAMINER	
P O BOX 2207			KOSAR, AARON J		
WILMINGTON, DE 19899			ART UNIT	PAPER NUMBER	
			1651		
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			01/05/2009	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.	Applicant(s)				
10/574,213	VETTER ET AL.				
Examiner	Art Unit				
AARON J. KOSAR	1651				

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address -- Period for Reply

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A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1-136(a). In no event, however, may a reply be timely filled after SIX (6) MONTHS from the making date of the communication. Failure for reply within the set or catendad period for engly with Up statute, cause the application to become ABMONDED (38 U.S.C. § 133). Any reply received by the Office later than three months after the making date of this communication, even if timely filled, may reduce any earned patient term adjustment. See 37 CFR 1-704 (b).					
Status					
1) Responsive to communication(s) filed on 28 July 2006.					
2a) ☐ This action is FINAL. 2b) ☐ This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Exparte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4)⊠ Claim(s) <u>32-62</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)☐ Claim(s) is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) 32-62 are subject to restriction and/or election requirement.					
Application Papers					
9)☐ The specification is objected to by the Examiner.					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
a) ☐ All b) ☐ Some * c) ☐ None of:					
 Certified copies of the priority documents have been received. 					
 Certified copies of the priority documents have been received in Application No 					
3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.					

Attachment(s)

1) Notice of References Cited (PTO-892)

 Notice of Draftsperson's Patent Drawing Review (PTO-948)
 Information Disclosure Statement(s) (PTO/S5/08) Paper No(s)/Mail Date _____

4) Interview Summary (PTO-413) Paper No(s)/Mail Date.

5) Notice of Informal Patent Application 6) Other: ___

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DETAILED ACTION

Claims 32-62 are pending.

Election/Restrictions

I. Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

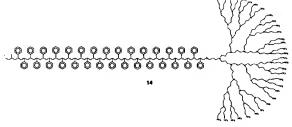
Group I, claims 32-60 and 62 drawn to a composition comprising a core linked/attached to a hyperbranched polymer and a biologically active moiety.

Group II, claim 61, drawn to a method of targeted-delivery.

The inventions listed as Groups I and II do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

The claims lack a special technical feature, because the shared/common technical feature among the groups, as taught by VAN HEST (U:PTO-892: van Hest, J. C. M., et al., "Polystyrene - Poly(propylene imine) Dendrimers: Synthesis, Characterization, and Association Behavior of a New Class of Amphiphiles" Chem. Eur. J. 1996, 2(12), 1616-1626.) was known at the time of the invention. The claims are drawn to a composition comprising (a) a hyperbranched polymer; (b) a core; (c) a biologically active moiety; (d) a linker; (e) (a) attached to (b); and (f) (c) attached to (a) via (d); however, Van Hest teaches the composition, by teaching the composition of formula (14):

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The composition (14) comprises a dendrimeric (hyperbranched) composition having a central/core structure comprising [OCH₂CH₂CH₂N] and amine (NH₂) moieties; wherein the dendrimers are attached to the core structure and wherein the NH₂ moieties are linked to the core via the n^{th} —generation dendrimer.

Thus, the shared/common technical feature does not make a contribution over the prior art and cannot be a *special* technical feature.

II. Election of Species

This application contains claims directed to more than one species of the generic invention. These species are deemed to lack unity of invention because they are not so linked as to form a single general inventive concept under PCT Rule 13.1.

The species are as follows:

The myriad of claimed/disclosed compositions comprising the myriad of disclosed structural cooperative arrangements of the myriad of components as disclosed on pages 13 through 87; formulae I-XXIV; and compounds (1)-(91), etc.

Applicant is required, in reply to this action, to elect a single species (i.e. a single chemical with defined structural cooperative relations of the components (a)-(f)) to which the claims shall be restricted if no generic claim is finally held to be allowable.

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The reply must also identify the claims readable on the elected species, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP
§ 809.02(a).

The claims are deemed to correspond to the species listed above in the following manner:

The claims recite various components comprising the compound of claim 32, including, for example: physical/intrinsic properties (claim 33); degree/units of branching/polymerization (B,Bc,Bfg, B', etc.)(claims 34,35,48-53,59); "further groups" (claim 36); capping groups (C)(claims 37-41); biological moiety (claims 42-47); and linkers (L,L',Lfg',etc.) (claims 54-58,60).

The following claim(s) are generic: 32, 61, and 62.

The species listed above do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, the species lack the same or corresponding special technical features for the following reasons:

Compound (14) as taught by VAN HEST (U), supra, teaches that the composition common/core structural feature of the instant claims was known at the time of the invention and thus the technical feature cannot be a special technical feature. Furthermore, since the myriad of the claimed/disclosed functional groups/moieties are linked by the common feature, the

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compositions are not linked by a special technical feature and therefore unity of invention is lacking.

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement may be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To preserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Note Regarding Joint Inventorship

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Note Regarding Rejoinder Practice

The examiner has required restriction between product and process claims. Where applicant elects claims directed to the product, and the product claims are subsequently found allowable, withdrawn process claims that depend from or otherwise require all the limitations of the allowable product claim will be considered for rejoinder. <u>All</u> claims directed to a nonelected process invention must require all the limitations of an allowable product claim for that process invention to be rejoined.

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In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103 and 112. Until all claims to the elected product are found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowable product claim will not be rejoined. See MPEP § 821.04(b). Additionally, in order to retain the right to rejoinder in accordance with the above policy, applicant is advised that the process claims should be amended during prosecution to require the limitations of the product claims. Failure to do so may result in a loss of the right to rejoinder. Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to AARON J. KOSAR whose telephone number is (571)270-3054. The examiner can normally be reached on Monday-Thursday, 7:30AM-5:00PM, ALT. Friday,EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mike Wityshyn can be reached on (571) 272-0926. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Sandra Saucier/ Primary Examiner, Art Unit 1651

/Aaron J Kosar/ Examiner, Art Unit 1651